

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L37	33301	("433").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 13:37
L38	49	37 and (nozzle same (oval or elliptical))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 13:37
L39	165	37 and (tube same (oval or elliptical))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 13:44
L40	1	("6729942").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 14:18
L41	1	("5318518").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 14:32
L42	2530	(433/80,81,82,86,88,89,90,224).COLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 14:35
L43	28	L42 and (diffuser)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 14:35
L44	2	("2001/0031441").URPN.	USPAT	OR	OFF	2010/10/15 14:42
L45	111	42 and (oval or elliptical)	USPAT	OR	OFF	2010/10/15 14:43
S1	1	("4993941").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/27 07:55
S2	1	("4276880").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/27 07:56
S4	36	("2850014" "2922420" "3035351" "3330268" "3439675" "3525339" "3816921" "3890977" "3958557" "4026025" "4044468" "4236520" "4276880" "4432758" "4747827" "4813928").PN. OR ("4993941").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:10
S5	73	("2862495" "3181336" "3312220" "3509880" "3530492").PN. OR ("4276880"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:25
S6	6	("20020137004" "20030013064" "20040091429" "4276880" "5765759" "6648644").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:37
S7	1	("6837709").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/27 08:37
S8	9	("4174571" "4412402" "4492575" "4676749" "4776794" "4950160" "5098291" "5765759" "6439966").PN. OR ("6837709").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:37

S9	52	("0783218" "2324250").PN. OR ("4412402").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/27 08:47
S10	211	(433/88).CQLS.	US-PGPUB; USPAT	OR	OFF	2007/08/27 08:47
S11	15	S10 and vortex	US-PGPUB; USPAT	OR	ON	2007/08/27 09:48
S12	4	S10 and eddy	US-PGPUB; USPAT	OR	ON	2007/08/27 09:50
S13	22278	("433").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 07:53
S14	1	S13 and vortex adj formation	US-PGPUB; USPAT	OR	ON	2007/10/09 09:02
S15	9	("4174571" "4412402" "4492575" "4676749" "4776794" "4950160" "5098291" "5765759" "6439966").PN. OR ("6837709").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/04 14:39
S16	1	("4993941").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/09 07:11
S17	1	("4276880").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/09 07:11
S18	79	("0517274" "0906711" "1114268" "1178898" "1188180" "1987907" "2043630" "2199844" "2361908" "2449497" "2614563" "2804075" "3019447" "3065749" "3394705" "3430631" "3735751" "4002170" "4068664" "4182385" "4400168" "4402684" "4447226" "4451257" "4468216" "4508533" "4512765" "4634435" "4662871" "4692140" "4708717" "4759349" "4787894" "4857047" "4915691" "4964849" "4993941" "5061180" "5125902" "5167622" "5197949" "5203769" "5224940" "5242386" "5248297" "5306237" "5310406" "5370610" "5380245" "5395315" "5462528" "5464390" "5496290" "5499970" "5527276" "5562640" "5795324").PN. OR ("6394996").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/09 07:22
S19	22396	("433").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 07:53
S20	65	S19 and diffuser	US-PGPUB; USPAT	OR	ON	2007/10/09 07:53
S21	9	("4174571" "4412402" "4492575" "4676749" "4776794" "4950160" "5098291" "5765759" "6439966").PN. OR ("6837709").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/09 08:04
S22	1783	(433/80,81,82,86,89,90,224).CQLS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 08:14
S23	92	S22 and (oval or elliptic)	US-PGPUB; USPAT	OR	ON	2007/10/09 08:23
S24	186	S22 and scale	US-PGPUB; USPAT	OR	ON	2007/10/09 08:23
S25	76	S19 and vortex	US-PGPUB; USPAT	OR	ON	2007/10/09 09:02

S26	36	("2850014" "2922420" "3035351" "3330268" "3439675" "3525339" "3816921" "3890977" "3958557" "4026025" "4044468" "4236520" "4276880" "4432758" "4747827" "4813928").PN. OR ("4993941").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/09 12:21
S27	18	S22 and diffuser	US-PGPUB; USPAT	OR	ON	2007/10/09 12:12
S28	82788	("222").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 12:22
S29	35	S28 and nozzle near diffuser	US-PGPUB; USPAT	OR	ON	2007/10/09 12:24
S30	66638	("604").CLAS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 12:24
S31	4	S30 and nozzle near diffuser	US-PGPUB; USPAT	OR	ON	2007/10/09 12:24
S32	55	("1779850" "2532655" "2587184" "2709852" "2751716" "4218855" "4412402" "4462803" "4492575").PN. OR ("4676749").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/09 12:30
S33	1783	(433/ 80,81,82,86,89,90,224).COLS.	US-PGPUB; USPAT	OR	OFF	2007/10/10 07:14
S34	17	S33 and asymmetrical\$2	US-PGPUB; USPAT	OR	ON	2007/10/10 07:14
S35	1	("6837709").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 11:09
S36	9	("4174571" "4412402" "4492575" "4676749" "4776794" "4950160" "5098291" "5765759" "6439966").PN. OR ("6837709").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 11:09
S37	1	("4340366").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 11:55
S38	2373	(433/ 80,81,82,86,88,89,90,224).COLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:12
S39	0	S38 and asymmetrical\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:13
S40	20	S38 and asymmetrical\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:13
S41	31749	("433").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:19
S42	0	S41 and (nozzle same (opening near4 asymmetrical\$2))	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:20
S43	1	S41 and (nozzle same (opening near4 asymmetrical\$2))	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:20
S44	4	S41 and (nozzle same asymmetrical\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/03/16 14:20

S45	2417	(433/80,81,82,86,88,89,90,224).CQLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 09:22
S46	28	("3121426" "3375823" "3698088").PN. OR ("4108178").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:03
S47	41	("3065749").URPN.	USPAT	OR	OFF	2009/10/14 11:08
S48	43	("2449497" "2812765" "3065749" "3071402" "3085573" "3109426" "3208145").PN. OR ("3749090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:09
S49	27	("1987907" "3065749" "3889675" "4299221" "4519385" "4692140" "4790812" "4861332" "4919129" "4941872" "5147292" "5230704" "5269750" "5310406" "5419772" "5573504").PN. OR ("5792098").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:15
S50	62	("0790353" "1317851" "2243299" "2494088" "2531793" "2595491" "3771522" "4294251" "4519385" "4526573" "4553957").PN. OR ("4941872"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:19
S51	1	("5792098").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:25
S52	52	("0783218" "2324250").PN. OR ("4412402"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:35
S53	33	("1398527" "2661537" "2744361" "3164513" "3421702" "3894338" "3905554" "3972123" "4174571" "4260382" "4403956" "4412402" "4522597" "4540365" "4595365" "4608018" "4648840" "4776794" "4941298" "4950160" "5199229" "5234338" "5252064" "5658144" "5746596" "5765759" "5941702" "6106287").PN. OR ("6457974").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:39
S54	34	("2874470" "3064749" "3972123" "4174571" "4412402" "4462803" "4595365" "4648840" "4676749" "4696644" "4878320" "4950160" "4984984" "5090904" "5094615" "5123206" "5158455" "5186625" "5242300" "5275561" "5336202" "5618177" "5967779" "6039567" "6053803" "6093021" "6106288" "6149509" "6155824" "6186422" "6273789" "6309217").PN. OR ("6729942"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:42
S55	18	("2324250" "2669809" "4462803" "4482322").PN. OR ("4696644").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:52
S56	40	("3863628" "3882638" "3972123").PN. OR ("4174571").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:57

S57	9	("4174571" "4412402" "4492575" "4676749" "4776794" "4950160" "5098291" "5765759" "6439966").PN. OR ("6837709").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 11:59
S58	1	("6457974").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 12:01
S59	36	("2850014" "2922420" "3035351" "3330268" "3439675" "3525339" "3816921" "3890977" "3958557" "4026025" "4044468" "4236520" "4276880" "4432758" "4747827" "4813928").PN. OR ("4993941").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 12:10
S60	75	("2862495" "3181336" "3312220" "3509880" "3530492").PN. OR ("4276880").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 12:18
S61	66	S45 and deflection	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 12:27
S62	7	S45 and (tube same angled same open\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 12:29
S63	0	("6948935").PN.).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:29
S64	1	("6948935").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:29
S65	51	("2441441" "2814877" "2825135" "2874470" "3972150" "4090334" "4097995" "4174571" "4184258" "4214871" "4220446" "4236889" "4492575" "4494932" "4540365" "4595365" "4602906" "4608018" "4648840" "4663893").PN. OR ("4776794").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:35
S66	13	("2439032" "2897692" "3994097" "4218855" "4369607").PN. OR ("4663893").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:37
S67	51	S45 AND (SAND)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:38
S68	24	("1682784" "1834726" "3747216" "4286950" "5122153" "5197876" "5199229").PN. OR ("5356292").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:39
S69	147	S45 AND (DEFLECT\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 13:41
S70	1	("6457974").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 15:36
S71	1	("6837709").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/14 16:14
S72	1939	(433/ 80,81,82,86,89,90,224).CCL.S.	US-PGPUB; USPAT	OR	OFF	2009/10/15 07:50

S73	106	S72 and polycarbonate	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 07:50
S74	4	S72 and atraumatically	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 07:52
S75	1	("5792098").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 08:24
S76	2	("2709852").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 08:24
S77	1	("5336202").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 08:24
S78	1	("20010031441").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 08:24
S79	1	("6457974").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 08:25
S80	1	("6638064").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/15 08:25
S81	1	("5792098").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:38
S82	41	("3065749").URPN.	USPAT	OR	OFF	2010/03/09 08:43
S83	43	("2449497" "2812765" "3065749" "3071402" "3085573" "3109426" "3208145").PN. OR ("3749090").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:44
S84	72	("0747493" "2449497" "2985469" "3065749" "3208145" "3469582" "3568318" "3610242" "3749090" "3889675" "3964484" "3986262" "4049000" "4075761" "4182038").PN. OR ("4299221").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:45
S85	52	("0783218" "2324250").PN. OR ("4412402"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:45
S86	29	("0783218" "2324250").PN. OR ("4522597"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:46
S87	51	("2441441" "2814877" "2825135" "2874470" "3972150" "4090334" "4097995" "4174571" "4184258" "4214871" "4220446" "4236889" "4492575" "4494932" "4540365" "4595365" "4602906" "4608018" "4648840" "4663893").PN. OR ("4776794"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:47
S88	9	("4174571" "4412402" "4492575" "4676749" "4776794" "4950160" "5098291" "5765759" "6439966").PN. OR ("6837709").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 08:51

S89	53	("3254646" "3698088" "3874083" "3882638" "3972123" "4026025" "4068664" "4108178" "4149315" "4174571" "4184258" "4214871" "4248589" "4266815" "4412402" "4462803" "4487582" "4494932" "4495575" "4522597" "4595365" "4675004" "4676749" "4680026" "4696644" "4696645").FN. OR ("4984984").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 09:18
S90	2354	(433/80,82,86,88,89,90,224).CQLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 09:28
S91	172	S90 and (oval or elliptical)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 09:28
S92	793	(433/80).CQLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 09:54
S93	68	S92 and (oval or elliptical)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 09:54
S94	32604	("433").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 10:00
S95	158	S94 and (tube same (elliptical or oval))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 10:00
S96	72	("0747493" "2449497" "2985469" "3065749" "3208145" "3469582" "3568318" "3610242" "3749090" "3889675" "3964484" "3986262" "4049000" "4075761" "4182038").FN. OR ("4299221").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 11:14
S97	9	("3972123" "4174571" "4412402" "4696644" "4950160" "5509849" "6139320" "6203406" "6287180").FN. OR ("6824453").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 11:33
S98	32	("1699532" "3972123" "4174571" "4248589" "4494932" "4540365" "4648840").FN. OR ("4950160").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 11:35
S99	33	("1398527" "2661537" "2744361" "3164513" "3421702" "3894338" "3905554" "3972123" "4174571" "4260382" "4403956" "4412402" "4522597" "4540365" "4595365" "4608018" "4648840" "4776794" "4941298" "4950160" "5199229" "5234338" "5252064" "5658144" "5746596" "5765759" "5941702" "6106287").FN. OR ("6457974").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 11:40
S100	34	(dental) and (powder same tube same openings)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 12:42
S101	251	(433/88).CQLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 15:19

S103	11	("2696049" "5094615" "5547376" "5842863" "5934904" "5951285" "5957760").PN. OR ("6325624").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/09 15:45
S104	1	("6325624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 07:46
S105	1	("6485303").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 07:47
S106	226	(433/88).CQLS.	US-PGPUB; USPAT	OR	OFF	2010/03/10 07:48
S107	5	S106 and polycarbonate	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 07:48
S108	8	S106 and diffuser	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 08:07
S109	1965	(433/80,81,82,86,89,90,224).CQLS.	US-PGPUB; USPAT	OR	OFF	2010/03/10 08:09
S110	25	S109 and diffuser	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 08:09
S111	93	(medial or dental) and (nozzle same diffuser)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 08:20
S112	612	S109 and enlarged	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 08:55
S113	28	S109 and (enlarged near3 tip)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 08:55
S114	90	S109 and (tapered near3 tip)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 08:57
S115	24	S109 and (flared near3 (tip or end))	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 09:00
S116	1	("6325624").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 09:36
S117	1	("4950160").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 09:36
S118	1	("6485303").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/10 09:37

SI19	111	("0628907" "0786215" "0811111" "1658754" "2812765" "3012752" "3048192" "3081770" "3157201" "3434691" "3467082" "3783900" "3788602" "3794032" "3833000" "3834372" "3957082" "4079737" "4173328" "4230128" "4280498" "4282873" "4299217" "4314586" "4397335" "4487600" "4540156" "4553964" "4566480" "4568332" "4581014" "4593717" "4595005" "4605396" "4619643" "4642097" "4645496" "4648868" "4654027" "4667927" "4680026" "4708717" "4758235" "4807666" "4911202" "4925450" "4941872" "4964849" "4966551" "5019054").PN. OR ("5203769"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 08:59
SI20	9	("3972123" "4174571" "4412402" "4696644" "4950160" "5509849" "6139320" "6203406" "6287180").PN. OR ("6824453").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:09
SI21	32	("1699532" "3972123" "4174571" "4248589" "4494932" "4540365" "4648840").PN. OR ("4950160").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:10
SI22	1328	(451/102).COLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:15
SI23	790	SI22 and nozzle	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:15
SI24	66	SI22 and nozzle and (closed near3 end)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:15
SI25	1027	(451/38).COLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:20
SI26	563	SI25 and nozzle	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:20
SI27	2530	(433/80,81,82,86,88,89,90,224).COLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:42
SI28	749	SI27 AND NOZZLES1	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 09:48
SI29	1	("6729942").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 10:52
SI30	1	("6676409").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 10:52
SI31	1	("20040058627").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/15 12:57

EAST Search History (Interference)

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